

1 --63. (New) The method of claim 60, wherein a measured
2 systematic time delay has a mean whose absolute value is greater
3 than zero.--

1 --64. (New) The method of claim 60, further comprising
2 correcting at least one systematic time delay.--

1 --65. (New) The method of claim 60, wherein random errors
2 in the placement of trigger patterns are also corrected.--

1 ^{Supp}66. (New) An apparatus for determining systematic time
2 delays in the writing of trigger patterns on a storage medium of
3 a storage device, said apparatus comprising:

4 a processing unit adapted to take a plurality of
5 measurements of at least one trigger pattern at a plurality
6 of radial positions; and

7 said processing unit being further adapted to use said
8 plurality of measurements to determine at least one
9 systematic time delay.--

1 --67. (New) The apparatus of claim 66, wherein said at
2 least one systematic time delay is at least one off-track time
3 shift estimate.--

1 --68. (New) The apparatus of claim 66, wherein said
2 processing unit is further adapted to use said at least one
3 systematic time delay to write one or more trigger patterns on
4 said storage medium.--